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FIG. 2

a)

MB-ODN 4/5 (-CGXXCGXXCG-)

No.	Sequence	Score
1	CTCCAcgGgGcGCAcgGCCA	11811
2	TGTCTeqGgGcGCAcgGTTG	11773
3	CAGGcgGTeqGCTcgATGG	11538
4	AACTGcgGAcqTGgGcGcAG	10931
5	GTCAgGcgGAcqTGgGcGCTC	10829
6	AAAGGcgTGcgGGTcgGCC	10697
7	CTCAGcgGGcgGCAcgTGCA	10670
8	CACACcgGGcgCCTcgGCTT	10319
9	ATGAAcgGGcgGCTcgAGCC	10240
10	GATGcgGATcgGCAcgGCCA	10199
11	CAGCAcgTGcgTGgGcGcAT	9962
12	GCTGcgGGcgGAGcgATTC	9855
13	TGTTGcgCTcgGCTcgGcAG	9839
14	GGTGcgGTeqAGGcgCTCT	9728
15	GGTGcgGcAcqCCTcgGCC	9259
16	GGGGGcgGTeqCCTcgCTRA	9250
17	GACATcgGTeqGCAcgTCAG	9098
18	CCAGTcgGGcgGGGcgCTGG	9022
19	TCTGcgGTeqAAGcgGCC	8953
20	CAACTcgATcgGGGcgCCCA	8878
21	TTTGcgGTeqGTGcgCAGC	8869
22	CCAGGcgGTeqGTGcgCAGG	8869
23	CTCCTcgGTcgAGGcgGTGG	8844
24	ACCATcgGGcgCCAcgTCTC	8780
25	CACACcgATcgTGTcgGCTG	8615

333	GTGTTcgAAcgCTAcgAAC	1681
334	AAGTAcgAAcgATGcgAGAA	1637
335	ACTGcgTAcgCAGcgAATC	1539

b)

MB-ODN 5/5 (-CGXXCGXXCG-)

No.	Sequence	Score
1	TGCTcgTGgGcGCTcgGCAG	12868
2	GAGGcgGCTcgGTGcgGCTC	12599
3	TTGGcgGCAcgCAAcgCCTC	11345
4	GAGGcgTTGcgGGGcgGCC	11280
5	AAAGGcgTGgGcGCTcgTGA	11258
6	CAGGcgATGcgCCTcgGCTC	10614
7	GTTCcgGAcqAGTcgGCAT	10297
8	GGGGcgGGTcgACTcgACCA	10243
9	TGGTcgGGGcgGGTcgACTC	10153
10	ATCAcgCTAcqGGGcgGCCA	10063
11	GTGcgCCTcgAGTcgACAT	10059
12	AAAGGcgGCTcgCATcgATGG	10036
13	GAGGcgGGGcgGGTcgATCT	9743
14	AATTcgTGgGcGCTcgTGCA	9712
15	CAGGcgGTGcgGTGcgGCAT	9657
16	TAGGcgCTTcgAGTcgGCAC	9655
17	GTGcgCTCcgGGTcgGCAG	9390
18	GCTTcgAGTcgGCAcgCCAG	9269
19	GTGTcgGGGcgAGGcgACCA	9164
20	TTGGcgTTGcgTGTcgGCCT	9034
21	TCATcgATGcgGGGcgCAC	8959
22	GAGGcgGGGcgGGGcgGAGA	8873
23	TAGGcgATGcgCAGcgCCTG	8845
24	CAGGcgGTGcgGCAcgCAGT	8703
25	CTGAcgCCTcgGCTcgAGCT	8642

332	ATTAcgCTGcgAAAcgCAGT	1807
333	TAAcGGAAGcgTAAcgATTC	1713
334	CATGcgTAAcgTTAcgGAAA	1219

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FIG. 3

a)

b)

MB-ODN 4/5 (-CGXXCGXXXCG-)

MB-ODN 5/5 (-CGXXXCGXXXCG-)

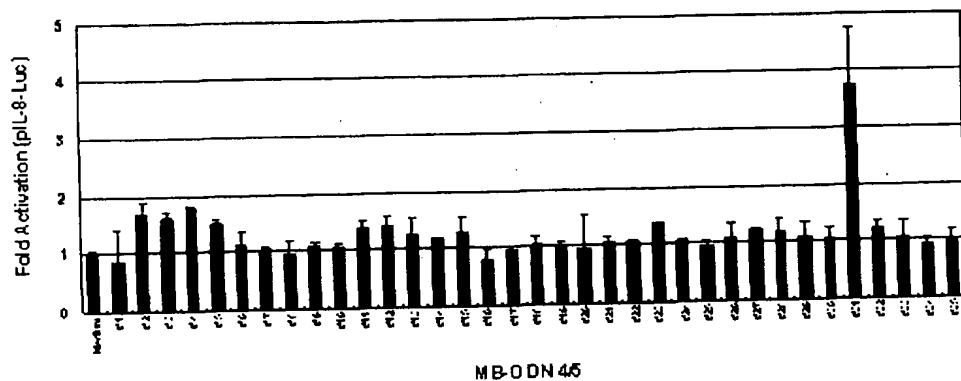
ODN	Sequence
MB-ODN4/5-1	CCAGTCCGCGCGCGCGCTGC
MB-ODN4/5-2	GCTGCGCGCGCGCGCGATTG
MB-ODN4/5-3	ACCAAGCGCGCGCGCGCTGC
MB-ODN4/5-4	GCTGCGCGCGCGCTGCGCATG
MB-ODN4/5-5	GCGAGCGCGCGCGATCGCGAC
MB-ODN4/5-6	CTTGGCGCGCGCGTGCAGCCA
MB-ODN4/5-7	AACTGCGCGCGTGCAGCGCAC
MB-ODN4/5-8	GCTCAGCGTGCAGTGCATTG
MB-ODN4/5-9	TTTGGCGCGTGCCTGCGCGAC
MB-ODN4/5-10	GCTGCGCGTGCAGCGCGCTGT
MB-ODN4/5-11	GCTGCGCGTGCAGCGCGCTGT
MB-ODN4/5-12	TTTGTGCGTGCAGCGCGCGAC
MB-ODN4/5-13	CACTGCGCGCGCGATCGCGCAC
MB-ODN4/5-14	TTGCTGCGCGCGCTGCGCGAC
MB-ODN4/5-15	TTGCTGCGCGCGCTGCGCGAC
MB-ODN4/5-16	AGCATGCGCGCGCGCGCTGCT
MB-ODN4/5-17	GCGAGCGCGCGCGCGCGCAC
MB-ODN4/5-18	CTCATGCGCGCGCGCGCGCAC
MB-ODN4/5-19	ATGCTGCGCGCGCGCTGCGCGC
MB-ODN4/5-20	GCGTTCGCGCGCGCTGCGCGC
MB-ODN4/5-21	CACTGCGCGCGCGCGCGCTGCT
MB-ODN4/5-22	CTTGTGCGCGCGCGCGCGCAC
MB-ODN4/5-23	CACTGCGCGCGCGCGCGCGCAC
MB-ODN4/5-24	CACTGCGCGCGCGCGCGCGCAC
MB-ODN4/5-25	CTAGCGCGCGCGCGCGCGCAC
MB-ODN4/5-26	CAACCGCGCGCGCGCGCGCAC
MB-ODN4/5-27	CTAGCGCGCGCGCGCGCGCAC
MB-ODN4/5-28	CGACCGCGCGCGCGCGCGCAC
MB-ODN4/5-29	GCGACCGCGCGCGCGCGCGCAC
MB-ODN4/5-30	TAAAGCGCGCGCGCGCGCGCAC
MB-ODN4/5-31	AGCAGCGCGCGCGCGCGCGCAC
MB-ODN4/5-32	TGTTGCGCGCGCGCGCGCGCAC
MB-ODN4/5-33	CTGCGCGCGCGCGCGCGCGCAC
MB-ODN4/5-34	GCGACCGCGCGCGCGCGCGCAC
MB-ODN4/5-35	GCAAGCGCGCGCGCGCGCGCAC

ODN	Sequence
MB-ODN5/5-1	CATGCGCGATCGCTGCGCGTGC
MB-ODN5/5-2	CAGCGCGTGCAGCGCGCTGC
MB-ODN5/5-3	CATGCGCGTGCAGCGCGCGAAC
MB-ODN5/5-4	CAGCGCGTGCAGCGCGCGTGT
MB-ODN5/5-5	GCAAGCGCTGCGCACCGACAA
MB-ODN5/5-6	TGCTGCGCGCGCTGCGCGCAC
MB-ODN5/5-7	ACAGCGCGTGCAGCGCGCAC
MB-ODN5/5-8	TAGCGCGAGCGCGTGCAGCGC
MB-ODN5/5-9	TCAAGCGAGCGCGTGCAGCGC
MB-ODN5/5-10	ATCTGCGAGCGCGTGCAGCGC
MB-ODN5/5-11	GCGTGCAGCGCGTGCAGCGCT
MB-ODN5/5-12	TAGCGCGATGCAGCGCGCGCT
MB-ODN5/5-13	ATCTGCGAGCGCGTGCAGCGC
MB-ODN5/5-14	GCGTGCAGCGCGTGCAGCGCT
MB-ODN5/5-15	TGCTGCGCGCGCGTGCAGCGC
MB-ODN5/5-16	CAGCGCGCGCGTGCAGCGCGC
MB-ODN5/5-17	GCAAGCGCGCGCGTGCAGCGC
MB-ODN5/5-18	TGCGCGCGTGCAGCGCGCGC
MB-ODN5/5-19	CTGCGCGTGCAGCGCGCGCGCT
MB-ODN5/5-20	TGCGCGTGCAGCGCGCGCGCT
MB-ODN5/5-21	AAAAGCGTGCAGCGCGCGCAT
MB-ODN5/5-22	ATCAGCGTGCAGCGCGCGCGT
MB-ODN5/5-23	AAAAGCGTGCAGCGCGCGTTC
MB-ODN5/5-24	CTGCGCGTGCAGCGCGCGCGC
MB-ODN5/5-25	TGCGCGCGTGCAGCGCGCGCAT
MB-ODN5/5-26	TCTGCGCGTGCAGCGCGCGCAT
MB-ODN5/5-27	TGCGCGCGTGCAGCGCGCGCAT
MB-ODN5/5-28	GCGTGCAGCGCGTGCAGCGCT
MB-ODN5/5-29	TGCGCGCGTGCAGCGCGCGCAT
MB-ODN5/5-30	GCAAGCGCGTGCAGCGCGCAT
MB-ODN5/5-31	ACAGCGCGTGCAGCGCGCGCAT
MB-ODN5/5-32	AGCAGCGTGCAGCGCGCGCAT
MB-ODN5/5-33	CTGCGCGTGCAGCGCGCGCGCT
MB-ODN5/5-34	GCGAGCGTGCAGCGCGCGCGCT
MB-ODN5/5-35	CTGAGCGTGCAGCGCGCGCGCT

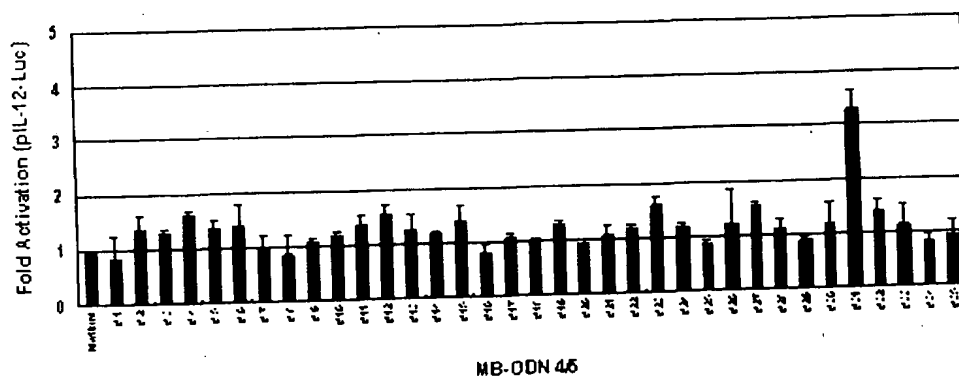
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FIG. 4

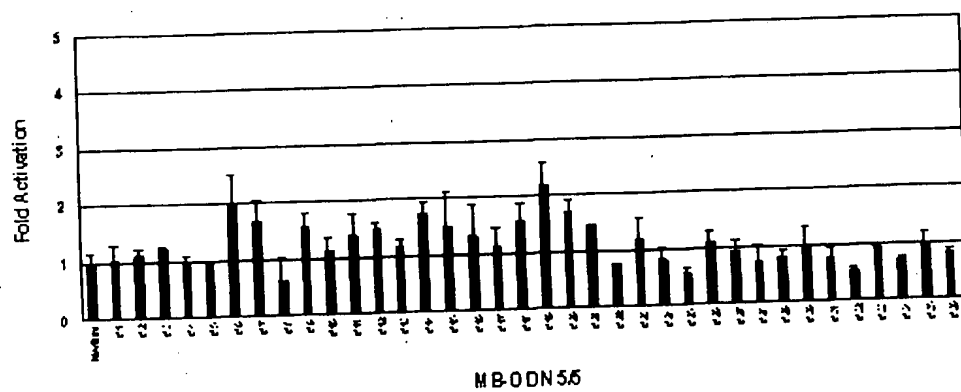
a)



b)



c)



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FIG. 5

a)

ODN
MB 4/5 #31

Sequence

#31.1

#31.2

#31.3

#31.4

#31.5

#31.6

#31.7

#31.8

#31.9

#31.10

#31.11

#31.12

#31.13

#31.14

#31.15

#31.16

#31.17

AGCAGCGTTCGTGTCGGCCT

CAGCTCGTTCGTGTCGTGCT

TGTGGCGTTCGTGTCGGTCT

TGCAGCGTTCGTGTCGCCAC

GGCCACGTTCGTGTCGGTAG

GACACGTTCGTGTCGGAC

CAGCAGTTCGTGTCGGACA

TATGTCGTTCGTGTCGTCTT

AAGGCGTTCGTGTCGCTTG

ATTTCGTTCGTGTCGATTG

GGTGGCGTTCGTGTCGTCCT

ATGGGCGTTCGTGTCGATCC

GATTCGTTCGTGTCGTCTT

GGGACGTTCGTGTCGGTGC

TGACTCGTTCGTGTCGCATG

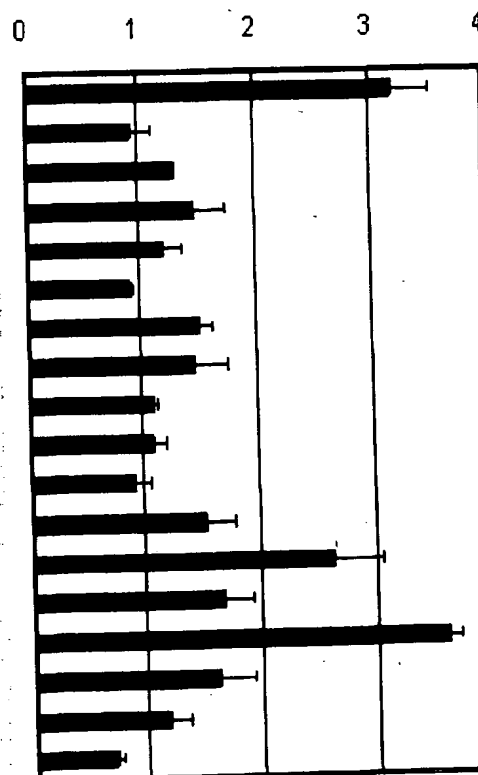
GTCATCGTTCGTGTCGAGAC

TTGCACGTTCGTGTCGATCA

CAGCAGTTCGTGTCGGTCA

b)

Fold activation

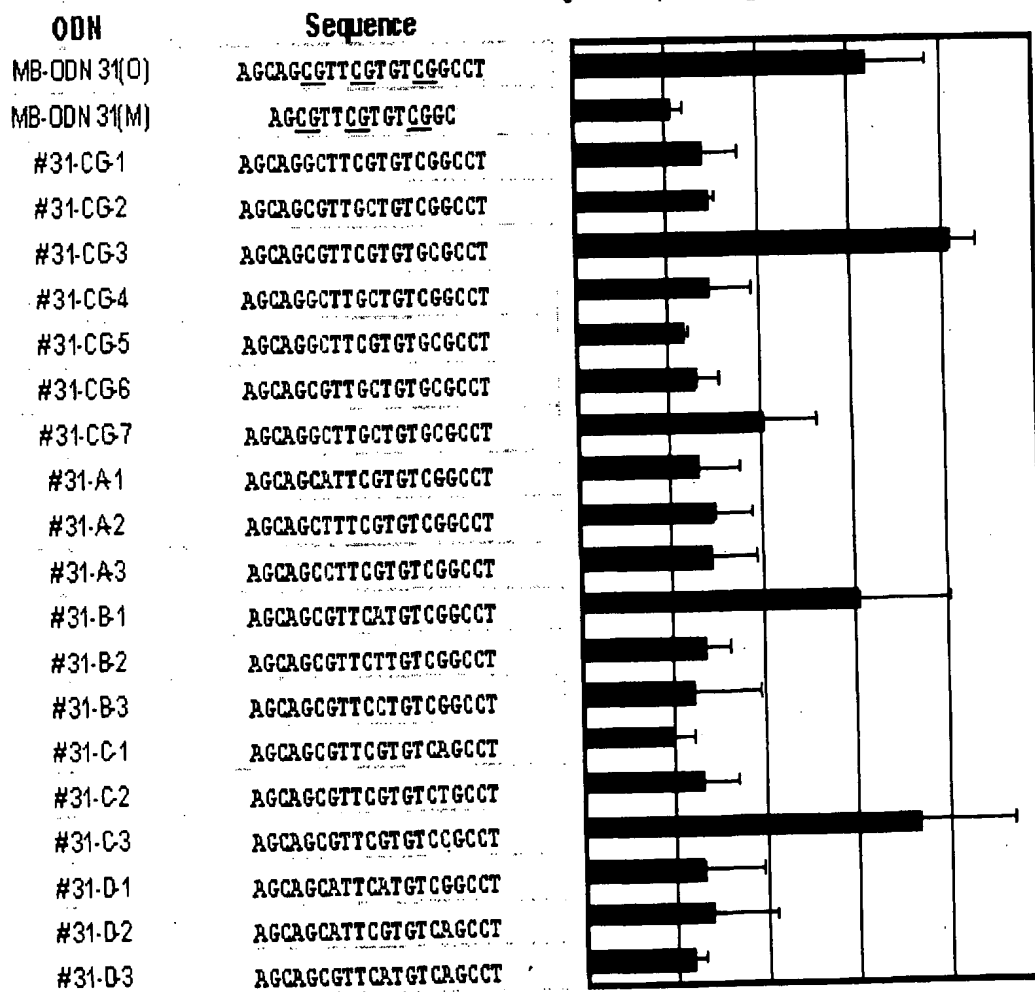


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FIG. 6

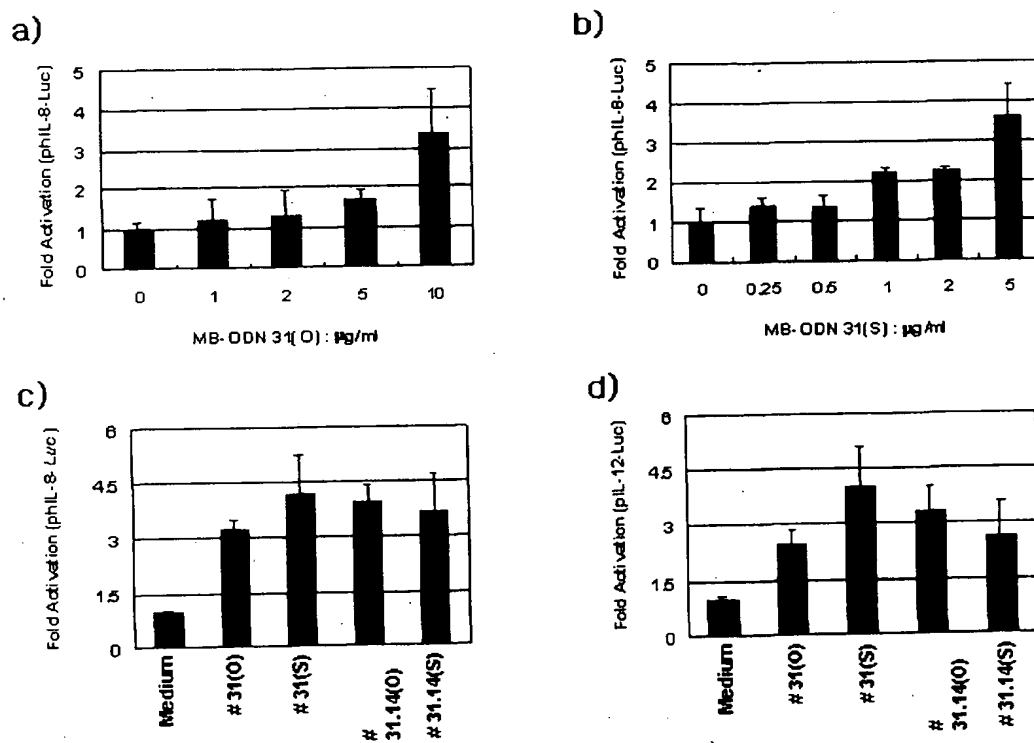
a)

b)



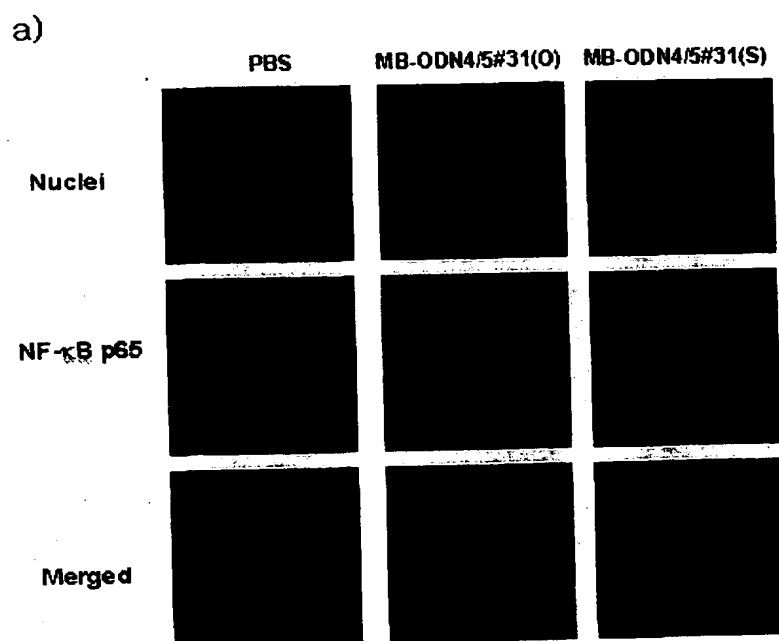
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FIG. 7

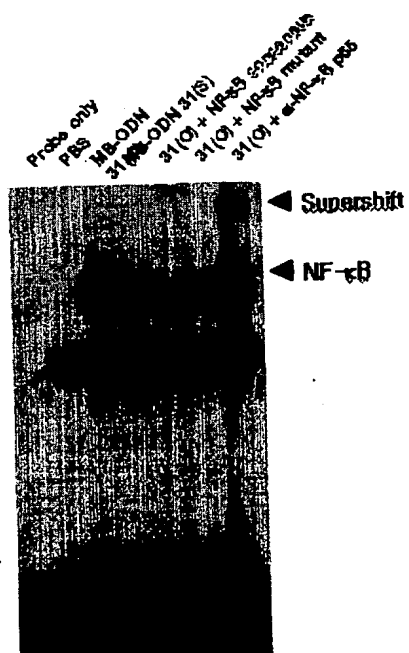


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FIG. 8



b)



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FIG. 9

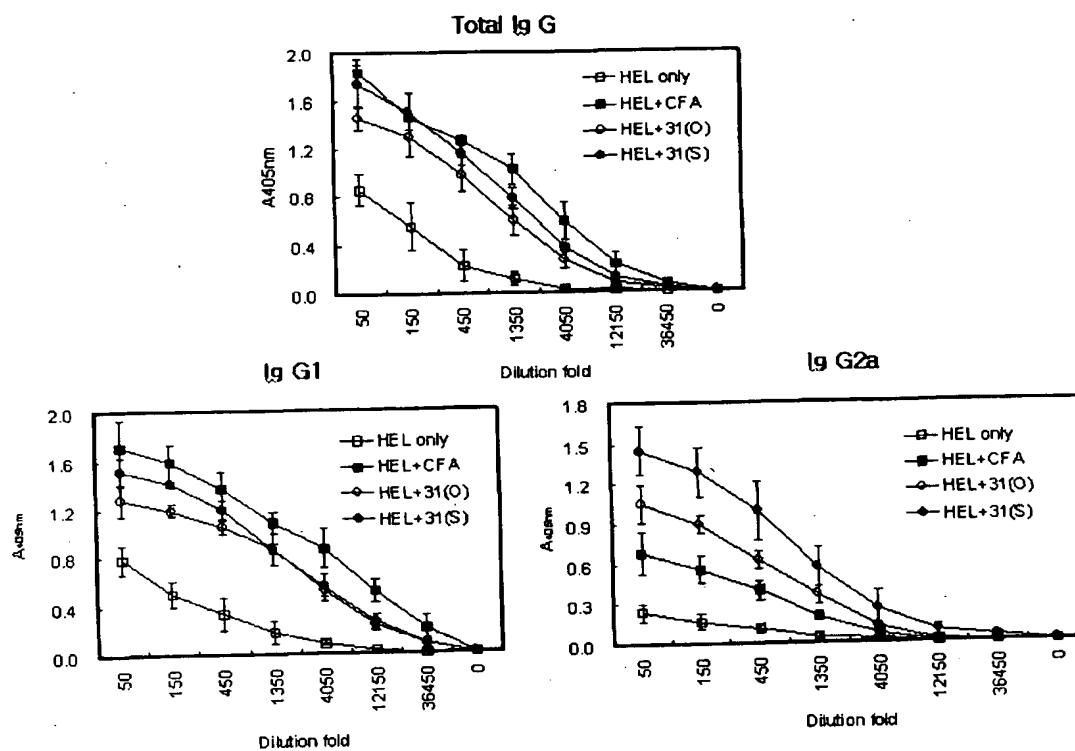
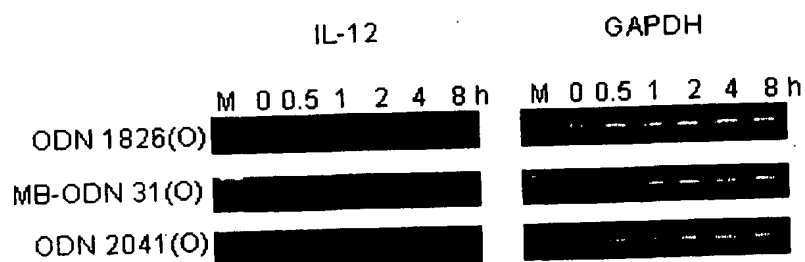


FIG. 10



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FIG. 11

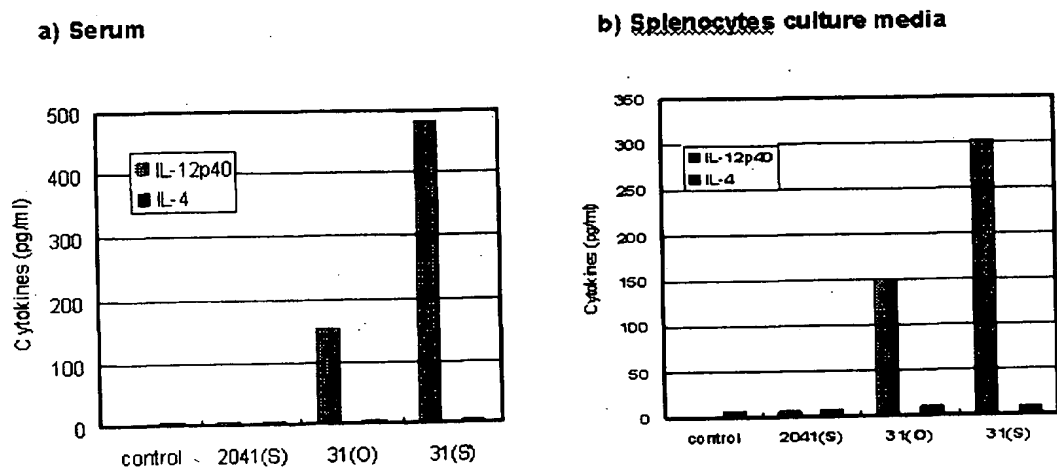
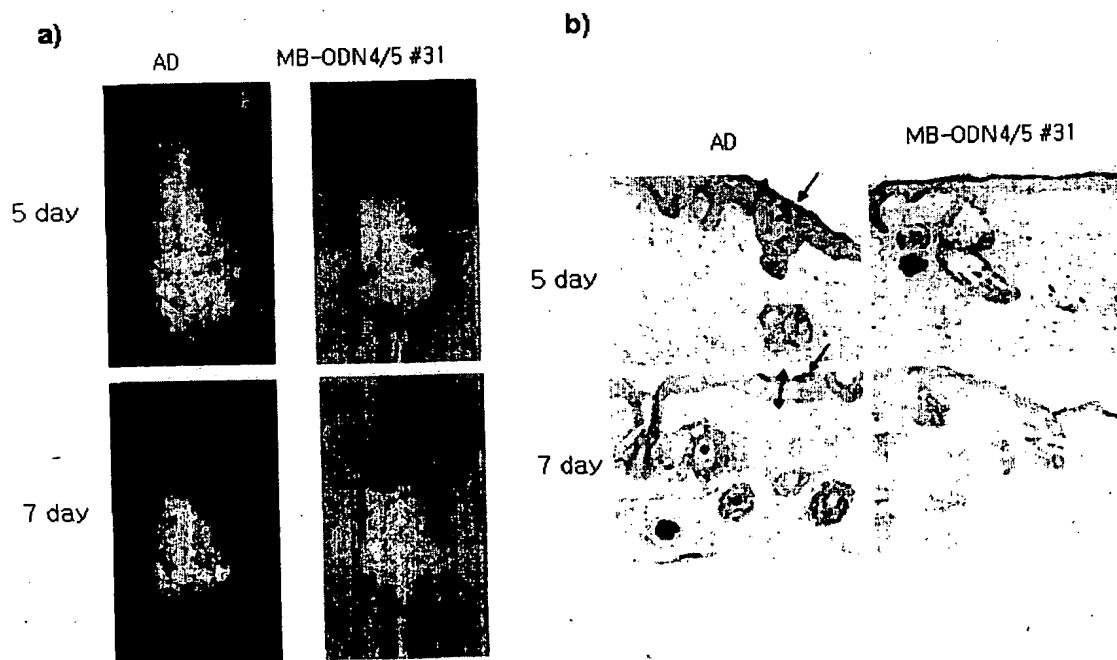


FIG. 12



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FIG. 13

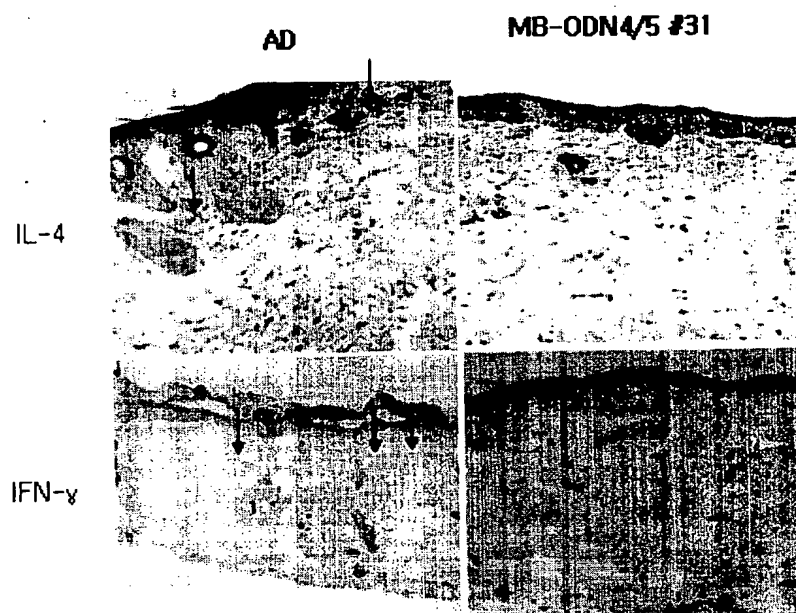
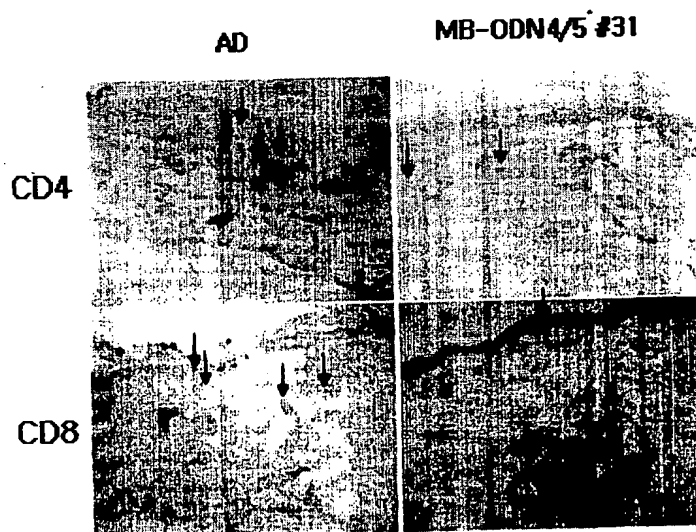


FIG. 14



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FIG. 15

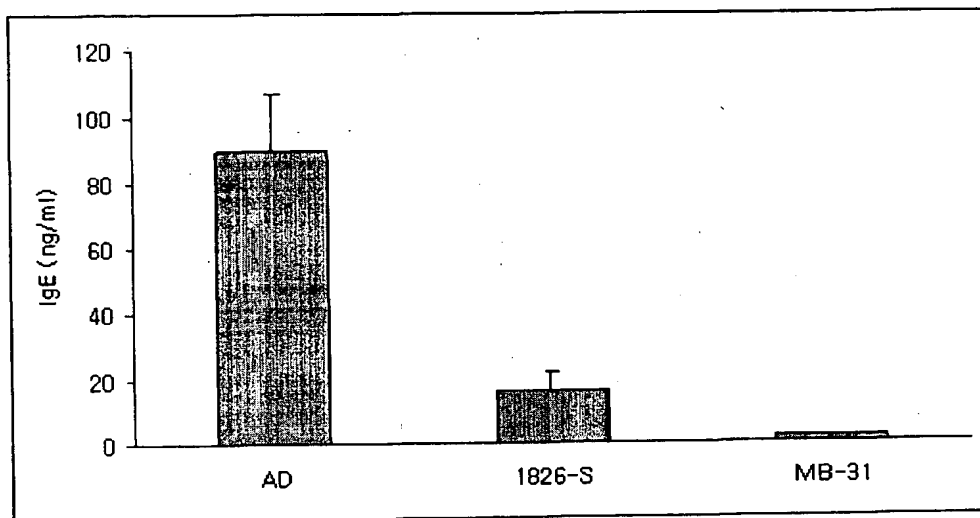
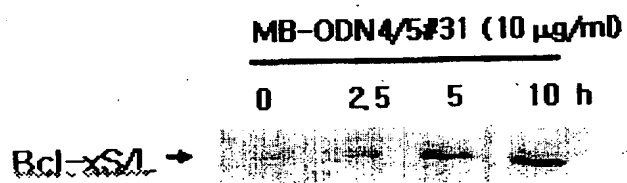


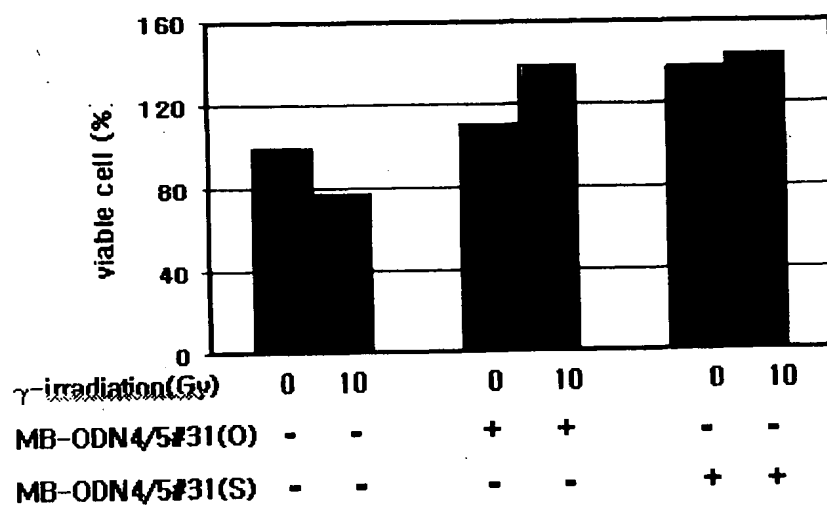
FIG. 16



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FIG. 17

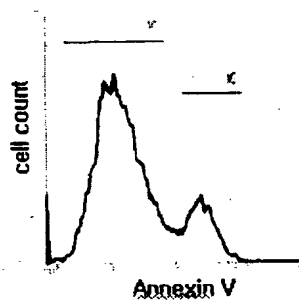
MTT assay



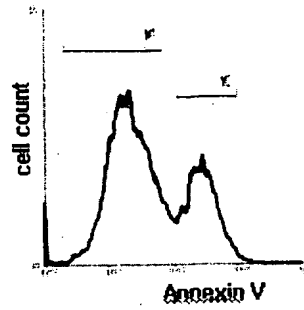
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FIG. 18

A) Control, 0 Gy



B) Control, 10 Gy



C) MB-ODN4/5#31(S), 10Gy

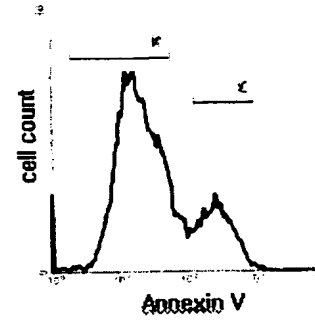
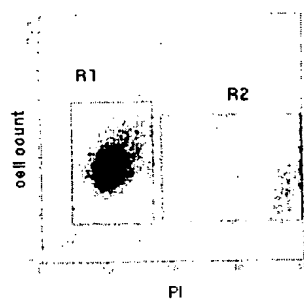


Fig.	γ -Irradiation	MB-ODN 4/5 #31(S)	Marker	%Total
A	0 Gy	(-)	M1	73.54
			M2	16.709
B	10 Gy	(-)	M1	58.82
			M2	27.24
C	10 Gy	(+))	M1	65.25
			M2	18.71

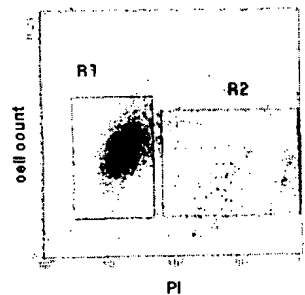
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FIG. 19

A) Control, 0 Gy



B) Control, 10 Gy



C) MB-ODN4/5#31(S), 10Gy

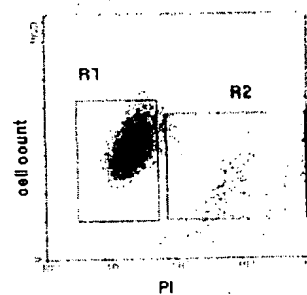


Fig.	γ - irradiation	MB-ODN 4/5 #31(s)	Region	%Total
A	0 Gy	(-)	R1	73.30
			R2	16.32
B	10 Gy	(-)	R1	58.93
			R2	25.33
C	10 Gy	(+))	R1	62.82
			R2	20.92